CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph. 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

20th December 2017

Dear Sir,

Sub: Construction of compound wall and other civil works at Kenchanahalli Govt. School in ward No: 02 of Yelahanka Sub Division.
Testing of cubes – Reg.

As requested the 7th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of compound wall and other civil works at Kenchanahalli Govt. School in ward No:02 of Yelahanka Sub Division.
Name of Agency	M/s. K.R.I.D.L.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	13/12/2017	20/12/2017	7	8.16	324	14.40	14.52
2					8.18	326	14.49	
3					8.21	330	14.67	

Note:
1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

(KHUSHBOO L.)
Quality Manager

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T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

12th December 2017

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of compound wall and other civil works at Kenchanahalli Govt. School in ward No: 02 of Yelahanka Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of compound wall and other civil works at Kenchanahalli Govt. School in ward No:02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	11/12/2017
Specific Gravity	**2.63**
Water Absorption	**0.32 %**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2016), IS : 2386 (Part III)–1963 (Reaffirmed 2016)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS 383 : 2016	Remarks
40	**100**	100	**Satisfies the requirement**
20	**97.4**	90-100	
10	**46.3**	25-55	
4.75	**6.8**	0-10	

Note:

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Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of compound wall and other civil works at Kenchanahalli Govt. School in ward No:02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	11/12/2017
Specific Gravity	**2.68**
Water Absorption	**0.32 %**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2016), IS : 2386 (Part III)-1963 (Reaffirmed 2016)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS 383 : 2016	Remarks
80	**100**	100	**Satisfies the requirement**
40	**97.5**	90-100	
20	**65.3**	30-70	
10	**24.8**	10-35	
4.75	**3.6**	0-5	

Note:

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of compound wall and other civil works at Kenchanahalli Govt. School in ward No:02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	11/12/2017
Specific Gravity	**2.57**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2016), IS : 2386 (Part III)-1963 (Reaffirmed 2016)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS 383 : 2016				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**97.8**	90-100	90-100	90-100	95-100		
	2.36	**85.4**	60-95	75-100	85-100	95-100		
	1.18	**74.3**	30-70	55-90	75-100	90-100		
	0.6	**46.5**	15-34	35-59	60-79	80-100		
	0.3	**23.8**	5-20	8-30	12-40	15-50		
	0.15	**7.9**	0-10	0-10	0-10	0-15		

Note:

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of compound wall and other civil works at Kenchanahalli Govt. School in ward No:02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	11/12/2017

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	48	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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Khushboo

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TEST REPORT

TEST ON CEMENT CONCRETE PAVER BLOCKS

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of work	Construction of compound wall and other civil works at Kenchanahalli Govt. School in ward No:02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Grade of Concrete	M-30
No. of Paver Blocks tested	8
Technical Reference	IS: 15658 : 2006

Compressive Strength

Sl.No	Date of Testing	Paver Block Type	Block Thickness in mm	Plan Area in mm²	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	12/12/2017	I type design	60	23974	750	31.28	31.00
2			60.0	23972	740	30.87	
3			60.1	23973	745	31.08	
4			60	23963	755	31.51	
5			60.1	23965	745	31.09	
6			60	23967	725	30.25	
7			60.2	23970	750	31.29	
8			60	23966	735	30.67	

Water Absorption

Sl.No	Date of Testing	Water Absobtion (% by weight)	Average (% by Wt.)	Requirements as per IS: 15658 : 2006
1	12/12/2017	5.8	5.6	When three units are tested the average water absorption shall not be more than 6% by mass and in individual samples, the water absorption should be restricted to 7 percent.
2		5.5		
3		5.6		

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Quality Manager

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